



1998 Toxics Release Inventory

DELAWARE

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	5,333,031	7,483,015	12,816,046
Air Emissions	4,238,492	6,832,696	11,071,188
Surface Water Discharges	747,352	59,740	807,092
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	250	0	250
Other On-site Land Releases	346,937	590,579	937,516
Off-site Releases (Transfers Off-site to Disposal)*	86,948	264,446	351,394
Total On- and Off-site Releases	5,419,979	7,747,461	13,167,440
Recycled On-site	34,449,054	0	34,449,054
Recycled Off-site	11,979,531	210	11,979,741
Energy Recovery On-site	16,155,665	0	16,155,665
Energy Recovery Off-site	1,496,321	0	1,496,321
Treated On-site	66,770,660	926,667	67,697,327
Treated Off-site**	3,953,988	300	3,954,288
Quantity Released On- and Off-site***	5,490,957	7,746,727	13,237,684
Total Production-related Waste Managed	140,296,176	8,673,904	148,970,080
Total Non-production-related Waste Managed	8,305	7	8,312

Transfers Off-site for Further Waste Management/Disposal

Recycling	11,981,105	210	11,981,315
Energy Recovery	1,491,543	0	1,491,543
Treatment	632,581	300	632,881
Publicly Owned Treatment Works (POTWs)	3,332,993	858	3,333,851
Metals and Metal Compounds*	11,332	858	12,190
Non-metal TRI Chemicals**	3,321,661	0	3,321,661
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	159,205	263,604	422,809
Total Transfers Off-site for Further Waste Management/Disposal	17,597,427	264,972	17,862,399

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

****Transfers reported without a valid waste management code.

For More Information . . .

State Contact:

David Fees
(302) 739-4791
Fax: (302) 739-3106

EPA Regional Contact:

Bill Reilly
(215) 814-2072
Fax: (215) 814-3114

To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531
Fax: (202) 401-2347



■ New industry ▲ Original industry

The largest marker in the state map represents the largest facility for on-site releases in the state of Delaware. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	743,603
Square Miles	1,955
Total Facilities	77
Total Forms	338
Form As	76

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	42	42	45
Pounds	5,419,979	7,747,461	13,167,440
National Rank for Total On-site Releases**			
Rank	41	42	43
Pounds	5,333,031	7,483,015	12,816,046
National Rank for Total Releases within State***			
Rank	42	42	44
Pounds	6,085,050	7,513,476	13,598,526
National Rank for Production-related Waste Managed			
Rank	32	44	37
Pounds	140,296,176	8,673,904	148,970,080

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-93-9	Sulfuric acid	1,538,010	0	0	0	0	1,538,010	0	0	0
—	Nitrate compounds	0	669,670	0	0	0	669,670	0	0	0
7647-01-0	Hydrochloric acid	331,417	0	0	0	0	331,417	663,476	0	0
110-54-3	n-Hexane	307,691	0	0	1	0	307,692	250	0	0
1330-20-7	Xylene (mixed isomers)	300,802	84	0	0	67	300,953	320	0	67
463-58-1	Carbonyl sulfide	290,000	0	0	0	0	290,000	0	0	0
—	Nickel compounds	2,428	7,200	0	250,024	5,587	265,239	1,397	4,556	1,031
—	Glycol ethers	261,440	0	0	0	672	262,112	1,300	42	630
67-56-1	Methanol	112,559	29,000	0	0	0	141,559	0	0	0
75-01-4	Vinyl chloride	136,972	1	0	0	2	136,975	0	2	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharge Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	5,920,847	0	0	0	0	5,920,847	0	0	0
7664-93-9	Sulfuric acid	448,080	0	0	0	0	448,080	0	0	0
—	Barium compounds	16,925	3,038	0	237,620	118,808	376,391	0	4,966	113,842
7664-39-3	Hydrogen fluoride	374,718	0	0	0	0	374,718	0	0	0
—	Zinc compounds	5,496	19,918	0	88,803	41,540	155,757	13,000	1,857	39,683
—	Manganese compounds	7,921	21,303	0	67,373	34,607	131,204	0	1,224	33,383
—	Copper compounds	2,456	11,721	0	46,648	24,986	85,811	0	2,817	22,169
—	Nickel compounds	19,007	419	0	39,266	21,646	80,338	0	3,547	18,099
—	Chromium compounds	8,617	2,348	0	38,983	20,391	70,339	0	1,106	19,285
—	Lead compounds	2,252	986	0	36,462	1,043	40,743	0	762	281

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases*	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State	Transferred Out of State
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Motiva Delaware City Refy., Delaware City, New Castle	1,580,497	57,419	0	0	0	281,662	1,919,578	0	585
Du Pont Seaford Plant, Seaford, Sussex	371,800	669,000	0	0	0	3,100	1,043,900	0	0
Daimler Chrysler Co. Newark Assembly Plant, Newark, New Castle	441,994	0	0	0	0	0	441,994	24,982	3,095
GMC Nao Wilmington Assembly Plant, Wilmington, New Castle	421,327	0	0	0	0	0	421,327	210	0
Townsend's Inc., Millsboro, Sussex	277,737	0	0	0	0	61,416	339,153	0	0
Du Pont Edge Moor, Edgemoor, New Castle	305,072	0	0	0	0	0	305,072	0	0
Formosa Plastics Corp., Delaware City, New Castle	131,977	0	0	0	0	0	131,977	0	0
Metachem Prods. L.L.C., New Castle, New Castle	98,441	180	0	0	0	0	98,621	0	0
Rodel Inc., Newark, New Castle	91,858	0	0	0	0	0	91,858	0	0
Ciba Specialty Chemicals Corp., Newport, New Castle	70,101	0	0	0	0	0	70,101	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Indian River Power Plant, Millsboro, Sussex	3,344,968	11,286	0	0	0	577,845	3,934,099	11,827	10,907
Edge Moor/Hay Road Power Plants, Wilmington, New Castle	1,965,628	48,454	0	0	0	12,734	2,026,816	4,873	236,105
First State Power Management Inc., Dover, Kent	1,508,037	0	0	0	0	0	1,508,037	0	0
American Minerals Inc., New Castle, New Castle	11,963	0	0	0	0	0	11,963	750	0
Sico #360 Wilmington Terminal, Wilmington, New Castle	2,100	0	0	0	0	0	2,100	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Motiva Delaware City Refy., Delaware City, New Castle	4	39,850	14,000,011	479	22,298,780	645	1,920,246	38,260,015	0
Du Pont Seaford Plant, Seaford, Sussex	0	0	0	0	28,000	21,013	1,043,900	1,092,913	1
Daimler Chrysler Co. Newark Assembly Plant, Newark, New Castle	0	450,512	0	3,500	63,990	251,714	464,381	1,234,097	0
GMC Nao Wilmington Assembly Plant, Wilmington, New Castle	0	297,400	0	0	87,122	63,868	419,722	868,112	0
Townsend's Inc., Millsboro, Sussex	0	0	0	0	0	0	339,153	339,153	0
Du Pont Edge Moor, Edgemoor, New Castle	0	0	0	0	31,140,000	0	305,072	31,445,072	1,200
Formosa Plastics Corp., Delaware City, New Castle	0	0	0	0	390,683	0	131,265	521,948	712
Metachem Prods. L.L.C., New Castle, New Castle	373,422	0	0	0	3,965,376	30,769	94,458	4,464,025	4,307
Rodel Inc., Newark, New Castle	5,487,439	0	0	341,457	519,219	581,189	90,986	7,020,290	864
Zeneca Specialties a Business Unit of Zeneca Inc., New Castle, New Castle	0	0	0	122,829	0	83,374	80,499	286,702	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Indian River Power Plant, Millsboro, Sussex	0	0	0	0	686,929	0	3,956,833	4,643,762	1
Edge Moor/Hay Road Power Plants, Wilmington, New Castle	0	0	0	0	239,738	300	2,267,794	2,507,832	1
First State Power Management Inc., Dover, Kent	0	0	0	0	0	0	1,508,037	1,508,037	0
American Minerals Inc., New Castle, New Castle	0	0	0	0	0	0	11,963	11,963	4
Sico #360 Wilmington Terminal, Wilmington, New Castle	0	210	0	0	0	0	2,100	2,310	1

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.